SEQUENCE LISTING

<110> INCYTE PHARMACEUTICALS, INC.
BANDMAN, Olga
LAL, Preeti
TANG, Y. Tom
CORLEY, Neil C.
GUEGLER, Karl J.
BAUGHN, Mariah R.
PATTERSON, Chandra

<120> CELL CYCLE REGULATION PROTEINS

<130> PF-0531 PCT

<140> To Be Assigned
<141> Herewith

<150> 60/088,695
<151> 1998-06-08

<160> 35

<170> PERL Program

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<213> Homo sapiens

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<223> Incyte clone 037377

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Pro Glu Pro Gly Pro Ser Ser Ser Ile Gly Ser Pro Gln Ala Ser
                 35                  40                  45
Ser Pro Pro Arg Pro Asn His Tyr Leu Leu Ile Asp Thr Gln Gly
                 50                  55                  60
Val Pro Tyr Thr Val Leu Val Asp Glu Glu Ser Gln Arg Glu Pro
                 65                  70                  75
Gly Ala Ser Gly Ala Pro Gly Gln Lys Lys Cys Tyr Ser Cys Pro
                 80                  85                  90
Val Cys Ser Arg Val Phe Glu Tyr Met Ser Tyr Leu Gln Arg His
                 95                 100                 105
Ser Ile Thr His Ser Glu Val Lys Pro Phe Glu Cys Asp Ile Cys
                110                 115                 120
Gly Lys Ala Phe Lys Arg Ala Ser His Leu Ala Arg His His Ser
                125                 130                 135
Ile His Leu Ala Gly Gly Gly Arg Pro His Gly Cys Pro Leu Cys
                140                 145                 150
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Pro Arg Arg Phe Arg Asp Ala Gly Glu Leu Ala Gln His Ser Arg
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Val His Ser Gly Glu Arg Pro Phe Gln Cys Pro His Cys Pro Arg
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Arg Phe Met Glu Gln Asn Thr Leu Gln Lys His Thr Arg Trp Lys
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His Pro
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<400> 2

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Arg Gly Val Val Leu Phe Phe Ile Gly Val Phe Leu Ala Leu Val
            35                  40                  45
Leu Asn Leu Leu Gln Ile Gln Arg Asn Val Thr Leu Phe Pro Pro
            50                  55                  60
Asp Val Ile Ala Ser Ile Phe Ser Ser Ala Trp Trp Val Pro Pro
            65                  70                  75
Cys Cys Gly Thr Ala Ser Ala Val Ile Gly Leu Leu Tyr Pro Cys
            80                  85                  90
Ile Asp Arg His Leu Gly Glu Pro His Lys Phe Lys Arg Glu Trp
            95                  100                 105
Ser Ser Val Met Arg Cys Val Ala Val Phe Val Gly Ile Asn His
            110                 115                 120
Ala Ser Ala Lys Val Asp Phe Asp Asn Asn Ile Gln Leu Ser Leu
            125                 130                 135
Thr Leu Ala Ala Leu Ser Ile Gly Leu Trp Trp Thr Phe Asp Arg
            140                 145                 150
Ser Arg Ser Gly Phe Gly Leu Gly Val Gly Ile Ala Phe Leu Ala
            155                 160                 165
Thr Val Val Thr Gln Leu Leu Val Tyr Asn Gly Val Tyr Gln Tyr
            170                 175                 180
Thr Ser Pro Asp Phe Leu Tyr Val Arg Ser Trp Leu Pro Cys Ile
            185                 190                 195
Phe Phe Ala Gly Gly Ile Thr Met Gly Asn Ile Gly Arg Gln Leu
            200                 205                 210
Ala Met Tyr Glu Cys Lys Val Ile Ala Glu Lys Ser His Gln Glu
            215                 220                 225
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<213> Homo sapiens

<220>
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<223> Incyte clone 236062

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Lys Glu Pro Leu Ala Val Asp Ser Trp Trp Leu Asp Pro Gly His
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Ala Ala Val Ala Gln Ala Pro Pro Ala Val Ala Ser Ser Ser Leu
35 40 45
Phe Asp Leu Ser Val Leu Lys Leu His His Ser Leu Gln Gln Ser
50 55 60
Glu Pro Asp Leu Arg His Leu Val Leu Val Val Asn Thr Leu Arg
65 70 75
Arg Ile Gln Ala Ser Met Ala Pro Ala Ala Ala Leu Pro Pro Val
80 85 90
Pro Ser Pro Pro Ala Ala Pro Ser Val Ala Asp Asn Leu Leu Ala
95 100 105
Ser Ser Asp Ala Ala Leu Ser Ala Ser Met Ala Ser Leu Leu Glu
110 115 120
Asp Leu Ser His Ile Glu Gly Leu Ser Gln Ala Pro Gln Pro Leu
125 130 135
Ala Asp Glu Gly Pro Pro Gly Arg Ser Ile Gly Gly Ala Ala Pro
140 145 150
Ser Leu Gly Ala Leu Asp Leu Leu Gly Pro Ala Thr Gly Cys Leu
155 160 165
Leu Asp Asp Gly Leu Glu Gly Leu Phe Glu Asp Ile Asp Thr Ser
170 175 180
Met Tyr Asp Asn Glu Leu Trp Ala Pro Ala Ser Glu Gly Leu Lys
185 190 195
Pro Gly Pro Glu Asp Gly Pro Gly Lys Glu Glu Ala Pro Glu Leu
200 205 210
Asp Glu Ala Glu Leu Asp Tyr Leu Met Asp Val Leu Val Gly Thr
215 220 225
Gln Ala Leu Glu Arg Pro Pro Gly Pro Gly Arg
230 235

<210> 4
<211> 351
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte clone 1596581

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Glu Leu Asp Gln Tyr Ala Pro Asp Val Ala Glu Leu Ile Arg Thr
                  35                  40                  45
Pro Met Glu Met Arg Tyr Ile Pro Leu Lys Val Ala Leu Phe Tyr
                  50                  55                  60
Leu Leu Asn Pro Tyr Thr Ile Leu Ser Cys Val Ala Lys Ser Thr
                  65                  70                  75
Cys Ala Ile Asn Asn Thr Leu Ile Ala Phe Phe Ile Leu Thr Thr
                  80                  85                  90
Ile Lys Gly Ser Ala Phe Leu Ser Ala Ile Phe Leu Ala Leu Ala
                  95                 100                 105
Thr Tyr Gln Ser Leu Tyr Pro Leu Thr Leu Phe Val Pro Gly Leu
                 110                 115                 120
Leu Tyr Leu Leu Gln Arg Gln Tyr Ile Pro Val Lys Met Lys Ser
                 125                 130                 135
Lys Ala Phe Trp Ile Phe Ser Trp Glu Tyr Ala Met Met Tyr Val
                 140                 145                 150
Gly Ser Leu Val Val Ile Ile Cys Leu Ser Phe Phe Leu Leu Ser
                 155                 160                 165
Ser Trp Asp Phe Ile Pro Ala Val Tyr Gly Phe Ile Leu Ser Val
                 170                 175                 180
Pro Asp Leu Thr Pro Asn Ile Gly Leu Phe Trp Tyr Phe Phe Ala
                 185                 190                 195
Glu Met Phe Glu His Phe Ser Leu Phe Phe Val Cys Val Phe Gln
                 200                 205                 210
Ile Asn Val Phe Phe Tyr Thr Ile Pro Leu Ala Ile Lys Leu Lys
                 215                 220                 225
Glu His Pro Ile Phe Phe Met Phe Ile Gln Ile Ala Val Ile Ala
                 230                 235                 240
Ile Phe Lys Ser Tyr Pro Thr Val Gly Asp Val Ala Leu Tyr Met
                 245                 250                 255
Ala Phe Phe Pro Val Trp Asn His Leu Tyr Arg Phe Leu Arg Asn
                 260                 265                 270
Ile Phe Val Leu Thr Cys Ile Ile Ile Val Cys Ser Leu Leu Phe
                 275                 280                 285
Pro Val Leu Trp His Leu Trp Ile Tyr Ala Gly Ser Ala Asn Ser
                 290                 295                 300
Asn Phe Phe Tyr Ala Ile Thr Leu Thr Phe Asn Val Gly Gln Ile
                 305                 310                 315
Leu Leu Ile Ser Asp Tyr Phe Tyr Ala Phe Leu Arg Arg Glu Tyr
                 320                 325                 330
Tyr Leu Thr His Gly Leu Tyr Leu Thr Ala Lys Asp Gly Thr Glu
                 335                 340                 345
Ala Met Leu Val Leu Lys
                 350
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<210> 5
<211> 757
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte clone 1853196

<400> 5

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             20                  25                  30
Thr Pro Thr Asp Ser Cys Glu Pro Ala Pro Glu Cys Ser Ser Leu
             35                  40                  45
Glu Gln Glu Glu Leu Gln Ala Leu Gln Ile Glu Gln Gly Glu Ser
             50                  55                  60
Ser Gln Asn Gly Thr Val Leu Met Glu Glu Thr Ala Tyr Pro Ala
             65                  70                  75
Leu Glu Glu Thr Ser Ser Thr Ile Glu Ala Glu Glu Gln Lys Ile
             80                  85                  90
Pro Glu Asp Ser Ile Tyr Ile Gly Thr Ala Ser Asp Asp Ser Asp
             95                 100                 105
Ile Val Thr Leu Glu Pro Pro Lys Leu Glu Glu Ile Gly Asn Gln
            110                 115                 120
Glu Val Val Ile Val Glu Glu Ala Gln Ser Ser Glu Asp Phe Asn
            125                 130                 135
Met Gly Ser Ser Ser Ser Ser Gln Tyr Thr Phe Cys Gln Pro Glu
            140                 145                 150
Thr Val Phe Ser Ser Gln Pro Ser Asp Asp Glu Ser Ser Ser Asp
            155                 160                 165
Glu Thr Ser Asn Gln Pro Ser Pro Ala Phe Arg Arg Arg Arg Ala
            170                 175                 180
Arg Lys Lys Thr Val Ser Ala Ser Glu Ser Glu Asp Arg Leu Val
            185                 190                 195
Ala Glu Gln Glu Thr Glu Pro Ser Lys Glu Leu Ser Lys Arg Gln
            200                 205                 210
Phe Ser Ser Gly Leu Asn Lys Cys Val Ile Leu Ala Leu Val Ile
            215                 220                 225
Ala Ile Ser Met Gly Phe Gly His Phe Tyr Gly Thr Ile Gln Ile
            230                 235                 240
Gln Lys Arg Gln Gln Leu Val Arg Lys Ile His Glu Asp Glu Leu
            245                 250                 255
Asn Asp Met Lys Asp Tyr Leu Ser Gln Cys Gln Gln Glu Gln Glu
            260                 265                 270
Ser Phe Ile Asp Tyr Lys Ser Leu Lys Glu Asn Leu Ala Arg Cys
            275                 280                 285
Trp Thr Leu Thr Glu Ala Glu Lys Met Ser Phe Glu Thr Gln Lys
            290                 295                 300
Thr Asn Leu Ala Thr Glu Asn Gln Tyr Leu Arg Val Ser Leu Glu
            305                 310                 315
Lys Glu Glu Lys Ala Leu Ser Ser Leu Gln Glu Glu Leu Asn Lys
            320                 325                 330
Leu Arg Glu Gln Ile Arg Ile Leu Glu Asp Lys Gly Thr Ser Thr
            335                 340                 345
Glu Leu Val Lys Glu Asn Gln Lys Leu Lys Gln His Leu Glu Glu
            350                 355                 360
Glu Lys Gln Lys Lys His Ser Phe Leu Ser Gln Arg Glu Thr Leu
            365                 370                 375
Leu Thr Glu Ala Lys Met Leu Lys Arg Glu Leu Glu Arg Glu Arg
            380                 385                 390
Leu Val Thr Thr Ala Leu Arg Gly Glu Leu Gln Gln Leu Ser Gly
            395                 400                 405
Ser Gln Leu His Gly Lys Ser Asp Ser Pro Asn Val Tyr Thr Glu
            410                 415                 420
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Lys Lys Glu Ile Ala Ile Leu Arg Glu Arg Leu Thr Glu Leu Glu
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Arg Lys Leu Thr Phe Glu Gln Gln Arg Ser Asp Leu Trp Glu Arg
                440                 445                 450
Leu Tyr Val Glu Ala Lys Asp Gln Asn Gly Lys Gln Gly Thr Asp
                455                 460                 465
Gly Lys Lys Lys Gly Gly Arg Gly Ser His Arg Ala Lys Asn Lys
                470                 475                 480
Ser Lys Glu Thr Phe Leu Gly Ser Val Lys Glu Thr Phe Asp Ala
                485                 490                 495
Met Lys Asn Ser Thr Lys Glu Phe Val Arg His His Lys Glu Lys
                500                 505                 510
Ile Lys Gln Ala Lys Glu Ala Val Lys Glu Asn Leu Lys Lys Phe
                515                 520                 525
Ser Asp Ser Val Lys Ser Thr Phe Arg His Phe Lys Asp Thr Thr
                530                 535                 540
Lys Asn Ile Phe Asp Glu Lys Gly Asn Lys Arg Phe Gly Ala Thr
                545                 550                 555
Lys Glu Ala Ala Glu Lys Pro Arg Thr Val Phe Ser Asp Tyr Leu
                560                 565                 570
His Pro Gln Tyr Lys Ala Pro Thr Glu Asn His His Asn Arg Gly
                575                 580                 585
Pro Thr Met Gln Asn Asp Gly Arg Lys Glu Lys Pro Val His Phe
                590                 595                 600
Lys Glu Phe Arg Lys Asn Thr Asn Ser Lys Lys Cys Ser Pro Gly
                605                 610                 615
His Asp Cys Arg Glu Asn Ser His Ser Phe Arg Lys Ala Cys Ser
                620                 625                 630
Gly Val Phe Asp Cys Ala Gln Gln Glu Ser Met Ser Leu Phe Asn
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Thr Val Val Asn Pro Ile Arg Met Asp Glu Phe Arg Gln Ile Ile
                650                 655                 660
Gln Arg Tyr Met Leu Lys Glu Leu Asp Thr Phe Cys His Trp Asn
                665                 670                 675
Glu Leu Asp Gln Phe Ile Asn Lys Phe Phe Leu Asn Gly Val Phe
                680                 685                 690
Ile His Asp Gln Lys Leu Phe Thr Asp Phe Val Asn Asp Val Lys
                695                 700                 705
Asp Tyr Leu Arg Asn Met Lys Glu Tyr Glu Val Asp Asn Asp Gly
                710                 715                 720
Val Phe Glu Lys Leu Asp Glu Tyr Ile Tyr Arg His Phe Phe Gly
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<213> Homo sapiens

<220>
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<223> Incyte clone 037377

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cgccccgccc caaccttcct tccctagacc ctcttctctc ccttcggctt ctctctttcg 180
gccggcgccg ccagttcctg gggcacaccc agaggtcccc ttctcgccgc cgcctgcaac 240
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<211> 1207
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte clone 162871

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tgaagcgtca gtctttgatt cacagacagt tgagcttttc agctgggaag cctttccatt 180
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gatgattcga ggagtagtgc tatttttat tggagtattt cttgcattag tgttaaattt 360
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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<211> 3006
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte clone 1853196

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gactctgttg acagaagcaa agatgctaaa gagagaactg gagagagaac gactagtaac 1260
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ttctcccaat gtatatactg aaaaaaagga aatagcaatc ttacgggaaa gactcactga 1380
gctggaacgg aagctaacct tcgaacagca gcgttctgat ttgtgggaaa gattgtatgt 1440
tgaggcaaaa gatcaaaatg gaaaacaagg aacagatgga aaaaagaaag ggggcagagg 1500
aagccacagg gctaaaaata agtcaaagga aacatttttg ggttcagtta aggaaacatt 1560
tgatgccatg aagaattcta ccaaggagtt tgtaaggcat cataaagaga aaattaagca 1620

ggctaaagaa gctgtgaagg aaaatctgaa aaaattctca gattcagtta aatccacttt 1680
cagacacttt aaagatacca ccaagaatat ctttgatgaa aagggtaata aaagatttgg 1740
tgctacaaaa gaagcagctg aaaaaccaag aacagttttt agtgactatt tacatccaca 1800
gtataaggca cctacagaaa accatcataa tagaggccct actatgcaaa atgatggaag 1860
gaaagaaaag ccagttcact ttaaagaatt cagaaaaaat acaaattcaa agaaatgcag 1920
tcctgggcat gattgtagag aaaattctca ttctttcaga aaggcttgtt ctggtgtatt 1980
tgattgtgct caacaagagt ccatgagcct ttttaacaca gtggtgaatc ctataaggat 2040
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ctggaacgaa cttgatcagt tcatcaataa gtttttccta aacggtgtct ttatacatga 2160
tcagaagctc ttcactgact ttgttaatga tgttaaagat tatcttagaa acatgaagga 2220
atatgaagta gataatgatg gagtatttga gaagttggat gaatatatat atagacactt 2280
ctttggtcac actttttccc ctccatatgg acccaggtcg gtttacataa aaccgtgtca 2340
ttacagtagt ttgtaacatt tgtagattgg atagcatttt tatgatttga tgagtttctt 2400
gtaaggttac cgtttctaag agttgtgctt tatggccact gagagaattc agaataaatt 2460
gaaagatgga gtctaaaaat tattagctgt tacaaatgga acatttcatt ataacgtgat 2520
cactttgact tgagcaaatg gtttaatttt tatcttaaaa atcagttaag aatatataaa 2580
atcctacttt ggccaagttt gtttcttttc attatagttt atatgaaaag atcaccttaa 2640
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caacacaaat tttactctga agtcagaaga gctcatatat aataattcta atgtcccacc 2760
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tttgataaag gtagaggcac aaagaggcaa actaagcaag tcaaattcta atgtgtgtac 2880
ttcataataa ttttttatcc attttcatct ttatattctg taacatgaaa cttacctaat 2940
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tgtgta 3006

<210> 11
<211> 684
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> 269, 285, 295, 312, 366, 375, 378, 397, 406, 428, 495, 501, 503
<221> unsure
<222> 586, 592, 610, 613, 643
<223> a or g or c or t, unknown, or other

<220>
<221> misc_feature
<223> Incyte clone 108390F1

<400> 11
cagtatatac attgggagaa tctgacttgc catgtaactg actaccactt aactgctgga 60
gttccccccc taaagccgta gttactagtc gttctctctc cagttctctc tttagcatct 120
ttgcttctgt caacagagtc tccctttgac taagaaagct gtgtttttc tgcttttcct 180
cttccaaatg ctgcttaagt ttctgatttt ctttaactaa ttcagtactt gtccctttat 240
cttccaatat tctaatctgt tctcttagnt tgtttaactc ttccngtaat gaggntaagg 300
ctttttcttc cntctccagg gatactctta aatactgatt ttctgtagca aggttcgttt 360
ctgagnttca aaggncanct tctctgcttc agtaagngtc caacancttg caagatttct 420
ttcaatgnct tataatctat aaaagttctt gttcccgttg acacggggaa ggtaatcctc 480
atatcatcaa ttcancttca ngnatctttc tgactaactg ttgacggttc tgaatctgaa 540
tgtgccatag gaatggccaa atcccatgct gattgcaatc accaangcaa gnataacaca 600
cttattgggn ccnctactga actgacggtt actcaactcc ttnggagggt cagttcttgt 660
tcagcaacta gccggtcttc agat 684

<210> 12
<211> 416
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte clone 1211009R1

<400> 12
aagaattcta ccaaggagtt tgtaaggcat cataaagaga aaattaagca ggctaaagaa 60
gctgtgaagg aaaatctgaa aaaattctca gattcagtta aatccacttt cagacacttt 120
aaagatacca ccaagaatat ctttgatgaa aagggtaata aaagatttgg tgctacaaaa 180
gaagcagctg aaaaaccaag aacagttttt agtgactatt tacatccaca gtataaggca 240
cctacagaaa accatcataa tagaggccct actatgcaaa atgatggaag gaaagaaaag 300
ccagttcact ttaaagaatt cagaaaaaat acaaattcaa agaaatgcag tcctgggcat 360
gattgtagag aaaattctca ttctttcaga aaggcttgtt ctggtgtatt tgattg 416

<210> 13
<211> 609
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> 25, 152, 166, 169, 173, 174, 180, 183, 186, 192, 193, 198, 200
<221> unsure
<222> 205, 220, 230, 233, 236, 243, 246, 251, 285, 307, 309, 310, 317
<221> unsure
<222> 319, 329, 344, 345, 377, 475, 485, 556, 573, 583, 594
<223> a or g or c or t, unknown, or other

<220>
<221> misc_feature
<223> Incyte clone 1211009T1

<400> 13
aagaacatta tatttattca gaaanattaa gtatttcaaa ggtaaaaaat gaagctaaca 60
tttgaagatt aggtaagttt catgttacag aatataaaga tgaaaatgga taaaaaatta 120
ttatgaagta cacacattag aatttgactt gnttagtttg cctctntgng ccnntacctn 180
tancanaggt anntatgngn ctaantatca taactaagcn ggtacatggn atnganaagt 240
ganaanaggt nggacattag aaattattat atatgagctc ttctnacttc agagtaaaat 300
ttgtgtngnn cattccnanc ttccaaaant gaataaatac atannagatt aaaggaaaat 360
aatttcactt aaggtgntct tttcatataa actataatga gaagaaacaa acttggccaa 420
agtaggattt tatatattct taactgattt ttaagataga aaattaaacc atttnctcaa 480
gtcanagtga tcacgttata atgaaatgtt ccatttgtaa cagctaataa tttttagact 540
ccatctttca atttantctg aattctctca gtngccataa agncaactct tagnaacggt 600
accttcaag 609

<210> 14
<211> 189
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte clone 1352052H1

<400> 14
cttcacatcc gtcctcctgt ctcagggctg gcaggggggag cctggaatta ccccctagtg 60
atggaatgac agggtctggt ggggactgaa ttccctggcc ctggggtcat agcttgggct 120
gttccttctc tgatacggga agagacccca atcagatttt tcaaattaaa gccagtcctg 180
ggaaatctc 189

<210> 15
<211> 473
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> 34, 59, 60, 134, 168, 311, 314, 344, 347, 354, 364, 391, 393, 401
<221> unsure
<222> 407, 413, 416, 426, 445, 446, 447, 453, 454, 459, 471
<223> a or g or c or t, unknown, or other

<220>
<221> misc_feature
<223> Incyte clone 1391767F1

<400> 15
gaaaaaaagg aaatagcaat cttacgggaa agantcactg agctggaacg gaagctaann 60
ttcgaacagc agcgttctga tttgtgggaa agattgtatg ttgaggcaaa agatcaaaat 120
ggaaaacaag gaanagatgg aaaaaagaaa gggggcagag gaagccanag ggctaaaaat 180
aagtcaaagg aaacattttt gggttcagtt aaggaaacat ttgatgccat gaagaattct 240
accaaggagt ttgtaaggca tcataaagag aaaattaagc aggctaaaga agctgtgaag 300
gaaaatctga naanattctc agattcagtt aaatccactt tccnggnact ttanagtacc 360
cccnagggta tctttgatga aaagggtaat nanagtttgg ngctacnaaa gangcnagct 420
gaaaanccag gacagttttt agggnnntat tgnnatccnc agtataaggc ncc 473

<210> 16
<211> 529
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> 119, 501
<223> a or g or c or t, unknown, or other

<220>
<221> misc_feature
<223> Incyte clone 1477338F1

<400> 16
ccccagatgt ggccgaactc atccggaccc ctatggaaat gcgttacatc cctttgaaag 60
tggccctgtt ctatctctta aatccttaca cgattttgtc ttgtgttgcc aagtctacnt 120
gtgccatcaa caacaccctc attgctttct tcattttgac tacgataaaa ggcagtgctt 180
tcctcagtgc tatttttctt gccttagcga cataccagtc tctgtaccca ctcaccttgt 240
ttgtcccagg actcctctat ctcctccagc ggcagtacat acctgtgaaa atgaagagca 300
aagccttctg gatcttttct tgggagtatg ccatgatgta tgtgggaagc ctagtggtaa 360
tcatttgcct ctccttcttc cttctcagct cttgggattt catccccgca gtctatggct 420
ttatactttc tgttccagat ctcactccaa acattggtct tttctggtac ttctttgcag 480
agatgtttga gcacttcagc ntcttctttg tatgtgtgtt cagatcaac 529

<210> 17
<211> 581
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> 372, 374, 445
<223> a or g or c or t, unknown, or other

<220>
<221> misc_feature
<223> Incyte clone 1520634F1

<400> 17
gccatccccc tgccctcagc ctctggcatt ttcctccgtt gagaccatgg agggccctcc 60
ccgtcggact tgccgctccc cagaacctgg accttcctcc tccatcggat ctccccaggc 120
ttcatctcct ccaaggccca accactacct gcttattgac actcagggtg tcccctacac 180
agtgctggtg gacgaggagt cacagaggga gccaggggcc agtggggctc caggccagaa 240
aaagtgctac agctgccccg tgtgctcaag ggtcttcgag tacatgtcct accttcagcg 300
acacagcatc acccactcgg aggtaaagcc cttcgagtgt gacatctgtg ggaaggcatt 360
caagcgcgcc ancnacttgg cacggcacca ttccattcac ctggcgggtg gtgggcggcc 420
ccacggctgc ccgctctgcc ctcgncgttc cgggatgcgg gtgagctggc ccagcacagc 480
cgggtgcact ctggggaacg cccgtttcag tgtcacactg cctcgccgtt tatggagaga 540
acacactgca gaaacacacg ggtggaagca tccatgagcg g 581

<210> 18
<211> 637
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> 462, 485, 510, 514, 550, 562, 602, 617, 622, 625, 629, 636
<223> a or g or c or t, unknown, or other

<220>
<221> misc_feature
<223> Incyte clone 1525569F6

<400> 18
cagtaatcag cccagtcctg cctttagacg acgccgtgct aggaagaaga ccgtttctgc 60

ttcagaatct gaagaccggc tagttgctga acaagaaact gaaccttcta aggagttgag 120
taaacgtcag ttcagtagtg gtctcaataa gtgtgttata cttgctttgg tgattgcaat 180
cagcatggga tttggccatt tctatggcac aattcagatt cagaagcgtc aacagttagt 240
cagaaagata catgaagatg aattgaatga tatgaaggat tatctttccc agtgtcaaca 300
ggaacaagaa tcttttatag attataagtc attgaaagaa aatcttgcaa ggtgttggac 360
acttactgaa gcagagaaga tgtcctttga aactcagaaa acgaaccttg ctaccagaaa 420
atcagtattt aagagtatcc ttggagaagg aagaaaaagc cntatcctca ttaccaggga 480
agagntaaac aaacttaaga ggaccagttn gganattgga agataaaggg gacaagtact 540
gaattagttn aaggaaaatc cngaaacttt aagcagcctt tggaagaggg aaagccggaa 600
anacaccagc tttcctnagt cnaangggng accctnt 637

<210> 19
<211> 187
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> 13, 19, 21
<223> a or g or c or t, unknown, or other

<220>
<221> misc_feature
<223> Incyte clone 1554775H1

<400> 19
gggcggagtt gtnggagtng nggaggaaga ggcggtaggg ggtacggggg ctggtcccag 60
aagatggcgg aggcgggga tttctggtag gtcctacttt aggacaagat gtggtaccgt 120
tgaagcgtca gtctttgatt cacagacagt tgagcttttc agctgggaag cctttccatt 180
ttttttt 187

<210> 20
<211> 499
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> 406, 435
<223> a or g or c or t, unknown, or other

<220>
<221> misc_feature
<223> Incyte clone 1596581F6

<400> 20
aaaaagcaga aactcctcct agaactggac cagtatgccc cagatgtggc cgaactcatc 60
cggaccccta tggaaatgcg ttacatccct ttgaaagtgg ccctgttcta tctcttaaat 120
ccttacacga ttttgtcttg tgttgccaag tctacctgtg ccatcaacaa caccctcatt 180
gctttcttca ttttgactac gataaaaggc agtgctttcc tcagtgctat ttttcttgcc 240
ttagcgacat accagtctct gtacccactc accttgtttg tcccaggact cctctatctc 300

ctccagcggc agtacatacc tgtgaaaatg aagagcaaag ccttctggat cttttcttgg 360
gagtatgcca tgatgtatgt gggaagccta gtggtaatca tttgcntctc cttcttcctt 420
ctcagctctt gggganttcat ccccgcagtc taatggctta tactttctgt tccagatctc 480
atccaaacat tgggtctttt 499

<210> 21
<211> 287
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> 122, 144, 266, 273
<223> a or g or c or t, unknown, or other

<220>
<221> misc_feature
<223> Incyte clone 1596581T1

<400> 21
ggcttggccc agcttctggc cccacagccc cctgaggtcc atgcagccct gtgccagcca 60
ggcctacttg agcacgagca tggcctctgt gccatccttg gcggtcaagt agaggccatg 120
tntgaggtag tactcccgcc gcangaaggc atagaagtaa tcagagatga gcaggatctg 180
cccaacgttg aaggtcagtg tgatggcata aaagaaatta gagttggcac ttcctgcata 240
aatccagagg tgccacagga cagggnagaa cangggacag acgattt 287

<210> 22
<211> 579
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> 22, 25, 32, 106, 123, 126, 135, 208, 216, 219, 234, 236, 263, 271
<221> unsure
<222> 282, 287, 292, 358, 360, 363, 365, 379, 412, 441, 452, 459, 483
<221> unsure
<222> 485, 499, 500
<223> a or g or c or t, unknown, or other

<220>
<221> misc_feature
<223> Incyte clone 162871X4

<400> 22
ctaaagaaga gcggtagggg gnccnggggc tngtcccaga aagtatggcg gaggcggggg 60
atttctggta ggtcctactt taggacaaga tgtggtaccg ttgaancgtc agtctttgat 120
tcncanacag ttgancttttt cagctgggaa gcctttccat tttttttttt aacggctttc 180
tgaacctatg aaaccatggc aaaagganaa acaaantcnc ctgggcccaa aaantntggc 240
ccatatattt catctgtcac tanccaaatt ntgaacttga tnattcnagg antattgcta 300
ttttttattg gagtatttct tgcattagtg ttaaatttac ttcaaattca aaaaaatntn 360
acncnctttc cacctgatnt gattgcaagc atcttttctt ctgcatgctg tnattgggtt 420
attatacccc tgcattaaca nacatctagg anaaccacnt aaatttaaaa aaaagtggtc 480

cantntaatg cggtgtgtnn cagtctttgt tggtataaat catgccagtg ctaaagtgga 540
tttcgataac aacatacagt tgtctctcac actggcgca 579

<210> 23
<211> 250
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> 8, 17, 24, 27, 33, 36, 43, 246
<223> a or g or c or t, unknown, or other

<220>
<221> misc_feature
<223> Incyte clone 162871X92

<400> 23
ggaaaggnca agggaanggg gtanggncgg tgntcnaaga aantggcgga ggcgggggat 60
ttctgctgtg attgggttat tatacccctg cattgacaga catctaggag aaccacataa 120
atttaaaaga gagcggtcca gtgtaatgcg gtgtgtagca gtctttgttg gtataaatca 180
tgccagtgct aaagtggatt tcgataacaa catacagttg tctctcacac tggctgcact 240
atcttnaaaa 250

<210> 24
<211> 250
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> 8
<223> a or g or c or t, unknown, or other

<220>
<221> misc_feature
<223> Incyte clone 1658067H1

<400> 24
cgacagtngg ggacgtggcg ctctacatgg ccttcttccc cgtgtggaac catctctaca 60
gattcctgag aaacatcttt gtcctcacct gcatcatcat cgtctgttcc ctgctcttcc 120
ctgtcctgtg gcacctctgg atttatgcag gaagtgccaa ctctaatttc ttttatgcca 180
tcacactgac cttcaacgtt gggcagatcc tgctcatctc tgattacttc tatgccttcc 240
tgcggcggga 250

<210> 25
<211> 736
<212> DNA
<213> Homo sapiens

<220>

<221> unsure
<222> 419, 435, 453, 462, 463, 471, 476, 513, 516, 563, 585, 586, 597
<221> unsure
<222> 611, 618, 652, 661, 680, 684, 685, 692, 693, 701, 714, 725, 731
<223> a or g or c or t, unknown, or other

<220>
<221> misc_feature
<223> Incyte clone 1706512F6

<400> 25
atcagaagct cttcactgac tttgttaatg atgttaaaga ttatcttaga aacatgaagg 60
aatatgaagt agataatgat ggagtatttg agaagttgga tgaatatata tatagacact 120
tctttggtca cacttttttcc cctccatatg gacccaggtc ggtttacata aaaccgtgtc 180
attacagtag tttgtaacat ttgtagattg gatagcattt ttatgatttg atgagtttct 240
tgtaaggtta ccgtttctaa gagttgtgct ttatgggcac tgagagaatt ccagaataaa 300
ttgaaagatg ggagtcctaa aaatttaatt agccggttac caaatgggga ccttttccat 360
tagtaacggt gattccacct ttggaccttt gaggccaaat gggtttaaat ttttttaanc 420
ccttaaaaaa atccnggttt aaaggaatta ttnttaaaga annccccacc nttttngggc 480
ccaaggtttt ggttttccct ttttccattt aanaanggtt ttaataatgg aaaaaaggat 540
tccacccttt aaaggtggga aantttaatt ttttcccccc taaannccct ttttaanggg 600
aatttaaatt ncccccttnct gggaagccca agggaatgga ggcccacccc cnaatttta 660
ncccggaag gtccggaagn ggcnncctat annaataatt nccaaaggtc cccncccaat 720
tttcnnctgg ncccat 736

<210> 26
<211> 611
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> 213, 223, 369, 406, 423, 469, 475, 490, 494, 498, 524, 548, 570
<221> unsure
<222> 574, 582, 584, 594, 597, 605, 607
<223> a or g or c or t, unknown, or other

<220>
<221> misc_feature
<223> Incyte clone 1722946F6

<400> 26
attggcgccc gagctgtgac cgccgccact ggggcagcca gcacaatcgg gcggaggtgg 60
cgctgcccct tcagacctga aagatgtctg aaaattccag tgacagtgat tcatcttgtg 120
gttggactgt catcagtcat gaggggtcag atatagaaat gttgaattct gtgaccccca 180
ctgacagctg tgagcccgcc ccagaatgtt cancttaga gcnagaggag cttcaagcat 240
tgcagataga gcaaggagaa tgcagccaaa atggcacagt gcttatggaa gaaactgctt 300
atccagcttt ggaggaaacc agctcaacaa ttgaggcaga ggaacaaaag atacccgaag 360
acagtatcna tattggaact gccagtggtg attctgatat tgttancct tgagccacta 420
agnttagaag gaattgggga tccaagaagt tgtcattgtt gaagaaagnc caagntccgg 480
agacttttan catngggntc ttcctctagc agccagtata cttntctgtt cagcccagaa 540
aactggantt tcatcttcag cctaatgacn gtgnaatcaa gntngtgatg gaanccngtt 600
attcngnccc c 611

<210> 27
<211> 592
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> 94, 104, 149, 167, 215, 226, 232, 275, 298, 301, 312, 333, 362
<221> unsure
<222> 364, 367, 376, 391, 392, 395, 412, 415, 419, 429, 435, 443, 449
<221> unsure
<222> 452, 462, 463, 464, 466, 467, 468, 470, 476, 485, 489, 492, 502
<221> unsure
<222> 514, 529, 533, 541, 550, 557, 558, 567, 572, 574, 577, 580
<223> a or g or c or t, unknown, or other

<220>
<221> misc_feature
<223> Incyte clone 1853196F6

<400> 27
ctttcagaaa ggcttgttct ggtgtatttg attgtgctca acaagagtcc atgagccttt 60
ttaacacagt ggtgaatcct ataaggatgg atgnatttag acanataatt caaaggtaca 120
tgttaaaaga actggatact ttttgtcant ggaacgaact tgatcanttc atcaataagt 180
ttttcctaaa cggtgtcttt atacatgatc agaanctctt cactgncttt gntaatgatg 240
ttaaagatta tcttagaaac atgaaggata tgaantagat aatgatggag tatttgcnaa 300
nttggatgga tntatatata gacacttctt tgntcacact ttttcccctc catatgggcc 360
cngntcngtt tacatnaaac cgtgtcttac nntantttgt aacatttgta gntgnatanc 420
atttttaant ttgangagtt tcntgtaang tnacggttcc annngnnntn ctttanagcc 480
accanagana antcggataa antgaaagta gggntccaaa attattaant gtnccaatag 540
nactttcctn ataaagnngt caccttngct tnanccnatn ggtttaattt tt 592

<210> 28
<211> 447
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte clone 2238411F6

<400> 28
tttgggcacc agcctctgag ggcctcaaac caggccctga ggatgggccg ggcaaggagg 60
aagctccgga gctggacgag gccgaattgg actacctcat ggatgtgctg gtgggcacac 120
aggcactgga gcgaccgccg gggccagggc gctgagccct cgtgctggaa tggttgtctg 180
gtatctgaac tgagcctgct ggctggacca actgtcctcg aaaagacaca gctggcttcc 240
ctagtacaga gaacagggct tgggccactt tggagagaca gaatctagtc ctgggcaact 300
tcacatccgt cctcctgtct cagggctggc agggggagcc tggaattacc ccctagtgat 360
ggaatgacag ggtctggtgg ggactgaatt ccctggccct ggggtcatag cttgggctgt 420
tccttctctg atacgggaag agacccc 447

<210> 29
<211> 247

<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> 234
<223> a or g or c or t, unknown, or other

<220>
<221> misc_feature
<223> Incyte clone 2312928H1

<400> 29
tgctggtggt ggctgtgaca gtgcgggcgg ccttgttccg ctccagtctg gccgagttca 60
tttccgagcg ggtggaggtg gtgtccccac tgagctcttg gaagagagtg gttgaaggcc 120
tttcactgtt ggacttggga gtatctccgt attctggagc agtatttcat gaaactccat 180
taataatata cctctttcat ttcctaattg actatgctga attggtgttt atgntaactg 240
atgcact 247

<210> 30
<211> 190
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> 162, 163
<223> a or g or c or t, unknown, or other

<220>
<221> misc_feature
<223> Incyte clone 3015795H1

<400> 30
acttcacatc cgtcctcctg tctcagggct ggcaggggga gcctggaatt acccccctagt 60
gatggaatga cagggtctgg tggggactga attccctggc cctggggtca tagcttgggc 120
tgttccttct ctgatacggg aagagacccc aatcagattt tnnaaattaa agccagtcct 180
gggaaatctc 190

<210> 31
<211> 253
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> 121
<223> a or g or c or t, unknown, or other

<220>
<221> misc_feature

<223> Incyte clone 3231214H1

<400> 31
gtttcagatc aacgtcttct tctacaccat ccccttagcc ataaagctaa aggagcaccc 60
catcttcttc atgtttatcc agatcgctgt catcgccatc tttaagtcct acccgacagt 120
nggggacgtg gcgctctaca tggccttctt ccccgtgtgg aaccatctct acagattcct 180
gagaaacatc tttgtcctca cctgcatcat catcgtctgt tccctggctc ttccctgtcc 240
tgtggcacct ctg 253

<210> 32
<211> 273
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> 88
<223> a or g or c or t, unknown, or other

<220>
<221> misc_feature
<223> Incyte clone 3985439H1

<400> 32
gtcttccttg cgtgtgcgtg cacgttgggt gctgggggggt ggagaccgga tctatcctcg 60
cttgggtact ttcctctcgg tgtgtgtntc tggccggagc cgtttcgcga cggcccgggc 120
gccccgcccc aaccttcctt ccctagaccc tcttctctcc cttcggcttc tctctttcgg 180
ccggcgccgc cagttcctgg ggcacaccca gaggtcccct tctcgccgcc gcctgcaact 240
gcgagggtag cccggggccg cttggagtcg ccc 273

<210> 33
<211> 618
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> 190, 336, 351, 413, 420, 423, 432, 441, 449, 454, 462, 510, 520
<221> unsure
<222> 524, 530, 552, 555, 557, 560, 561, 569, 574, 584, 585, 594, 596
<221> unsure
<222> 611, 614
<223> a or g or c or t, unknown, or other

<220>
<221> misc_feature
<223> Incyte clone 403002R6

<400> 33
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agtgctacag ctgccccgtg tgctcaaggg tcttcgagta catgtcctac cttcagcgac 120

acagcatcac ccactcggag gtaaagccct tcgagtgtga catctgtggg aaggcattca 180
agcgcgccan ccacttggca cggcaccatt ccattcacct ggcgggtggt gggcggcccc 240
acggctgccc gctctgccct cgccgcttcc gggatgcggg tgagtggccc aagcacagcc 300
gggtgcactc tggggaacgc ccgtttcagt gtcaanactg ccttcgccgg ntttaatgga 360
gcagaacaca attgcagaaa acaacaccgc ggttggaaag catcccattg aanccggggn 420
ttnccgggtt tnccccaagg ntaccaaang gaantttttc anaggggaac ccttgaaatt 480
ccctgttcca aaaaaacctt ggttaaaaan ccctaaaggn tggnttttn aggggccttg 540
gaaaaacagg ancananggn nagcgggant tttnaaaggg aaannccctt gccnanaagg 600
gggaatcccg naantaat 618

<210> 34
<211> 297
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte clone 510407R6

<400> 34
tgagtaatct tcaggtcctc cgtgttctgg agctgagatg ggaatgagcc cctacacaga 60
atggagtcct ctagcctaaa gatatcagct gttccatggc agagccttga ctggatggag 120
gtggggagtg tggtgtgtaa agtctctggc ctcataaaag gtggctgtgg gtcgtcagga 180
atctgcgcca tcttcctggg gcttctgcgc tgttgttggg gaagggaccc cagtcctgcc 240
ttccaccccc caaccaggcc tgagactgat caaacaataa acacgtttcc cactctg 297

<210> 35
<211> 239
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> 91
<223> a or g or c or t, unknown, or other

<220>
<221> misc_feature
<223> Incyte clone 3590729H1

<400> 35
ggcgagtgct tgggcagaag aggttcgagt ccagggtcac aagtctctgg taccaaaagg 60
gacccatggc tgactgacag caaggcctat ngggaagaac tgggagctcc ccaacttgga 120
cccccacctt gtggctctgc acaccaagga gccccctccc agacaggaag gagaagaggc 180
aggtgagcag ggcttgttag attgtggcta cttaataaat gttttttgtt atgaagtct 239